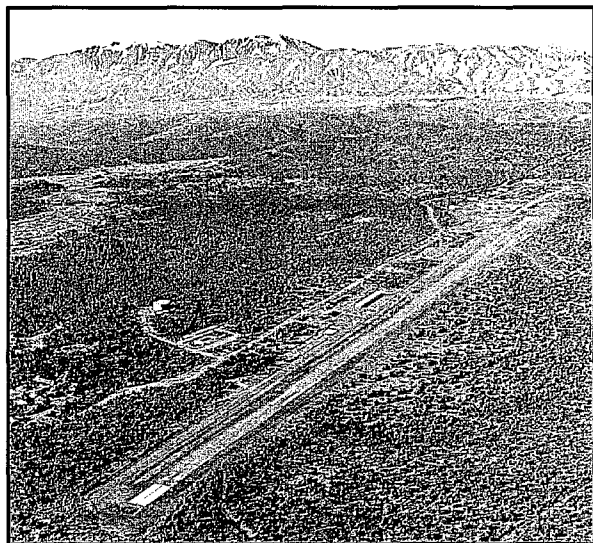


**Payson**  
*Municipal Airport*

## **INTRODUCTION AND SUMMARY**

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# INTRODUCTION AND SUMMARY



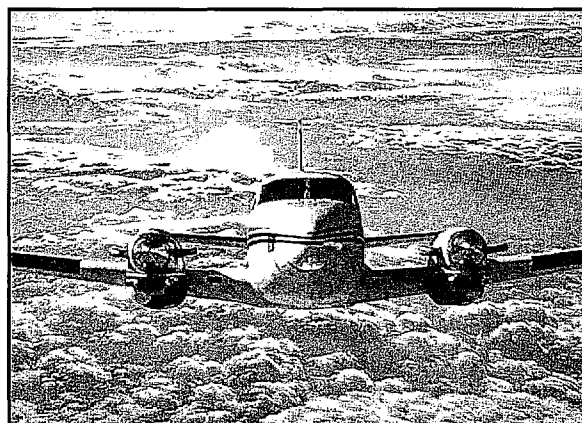
The Payson Municipal Airport Master Plan was completed through a cooperative effort between the Town of Payson, Arizona Department of Transportation, Aeronautics Division, and Federal Aviation Administration. This Airport Master Plan Update is a comprehensive analysis of airport needs and alternatives with the purpose of providing direction for the future development of this facility.

This Master Plan is evidence that the Town of Payson recognizes the importance of Payson Municipal Airport to the community and the region, as well as the associated challenges inherent in accommodating future aviation needs. The cost of maintaining an airport is an investment which yields impressive benefits to a community. By maintaining a sound and flexible Master Plan, Payson

Municipal Airport will continue to be a major economic asset and a source of pride to the residents of the Town of Payson.

## *MASTER PLAN OBJECTIVES*

The primary objective of the Airport Master Plan is to develop and maintain a long-term development program which will yield a safe, efficient, economical, and environmentally acceptable air transportation facility. The accomplishment of this objective requires the evaluation of the existing airport and a determination of what actions should be taken to maintain an adequate, safe, and reliable airport facility to meet the needs of the area. The completed Master Plan will provide an outline of the necessary development and give responsible officials advance notice of future needs to aid in planning, scheduling, and budgeting.



Specific objectives of this Master Plan are:

- Determine projected needs of airport users through the year 2020.
- Examine commercial air service potential.
- To evaluate development (through-the-fence) adjacent to the airport.
- To evaluate existing pavement conditions at the airport.
- To evaluate rates and charges at the airport.
- To evaluate the economic impact of the airport on the Payson community.
- To develop active and productive public involvement through the planning process.

To accomplish the objectives of this study, the Master Plan:

- Inventories and analyzes data pertinent to the airport, its environs, and the area it serves.
- Collects and analyzes general economic factors and evaluates the area's aviation activity.
- Forecasts aviation activity through the year 2020.
- Determines facility requirements for the airport.

- Examines alternative ways the required facilities can be provided.
- Proposes an airport layout plan which is compatible with both aviation demands and the local environment.
- Schedules priorities, phases proposed development, and estimates development costs.

The Airport Master Plan for Payson Municipal Airport was funded by the Arizona Department of Transportation, Aeronautics Division, Federal Aviation Administration, and Town of Payson. Technical work was conducted by Z&H Engineering, Inc. and Coffman Associates, Inc. of Phoenix, Arizona. A Rates and Fees Analysis was prepared by Bruce D. Greenberg, Inc. An Economic Benefit Study was prepared by Arizona State University. A pavement evaluation was conducted by Western Technologies, Inc.

In addition to the consultants, Town of Payson staff, and Airport Advisory Board, there was considerable participation by a number of community leaders, public agency personnel, and members of the aviation community. These key representatives of the community were called upon to serve on a Planning Advisory Committee. This committee reviewed working papers on the project and provided comment and input throughout the study to help ensure that a realistic, viable plan was developed. Additionally, the public was invited to a series of public information

workshops to provide input and learn about the study.

## **RECOMMENDATIONS**

Payson Municipal Airport; as an integral part of the local, regional, and national air transportation system; must provide essential aviation services to the community but can also play an important role in the overall economic development of the local community. This master plan provides recommendations as to the future orderly development of essential airport facilities as well as guidance in increasing the economic benefit of the airport to the community.

The principal recommendations of the master plan are as follows:

### ***Airside:***

- Extend Runway 6-24 600 feet to the west (to 6,100 feet) to provide additional takeoff length for the full-range of business aircraft expected to use the airport.
- Relocate the parallel taxiway 90 feet south of its present position to conform with FAA design standards.
- Remove obstructions within the Object Free Area (OFA) and Obstacle Free Zone (OFZ) to conform with FAA design standards.
- Install pavement edge lighting along all taxiway surfaces to aid in the safe movement of aircraft between the runway and apron surfaces.
- Install a Precision Approach Path Indicator (PAPI) to Runway 6 to assist pilots in determining the correct descent path to the Runway 6 threshold.
- Install Runway End Identification Lighting (REIL's) to each runway end to assist pilots in locating the runway end at night and during poor visibility conditions.
- Upgrade the existing airport rotating beacon to provide better visibility for pilots.
- Acquire easements or land (approximately 29.2 acres) to protect the runway protection zone (RPZ) to each runway end and OFA which extend beyond the existing airport property line.
- Update existing Town height and hazard zoning to protect the Global Positioning System (GPS) approaches being developed for each end of Runway 6-24 from obstructions.
- Establish an Airport Influence Area in accordance with Section 28-8485 of the Arizona Revised States to aid in notifying property owners that their property is subject to aircraft overflights.

### ***Landside:***

- Acquire approximately 40-acres of property along the south side of the airport for expansion.
- Realign Airport Road to provide for facility expansion and accommodate the relocation of the parallel taxiway 90 feet south of its present position.
- Construct a public terminal building along transient apron near the campground.
- Construct an above-ground fuel storage facility at west end of the airport.
- Construct two aircraft maintenance bays along existing Charlie Apron.
- Construct T-hangars between Bravo Apron and above-ground fuel storage facility.
- Redevelop Echo Apron and the Helipad south of their present positions to allow for the ultimate relocation of the parallel taxiway and clear critical safety areas to conform with FAA design standards.
- Expand Bravo and Charlie Aprons to the south to provide additional tiedown positions and areas for the development of fixed based operator facilities.

- Construct a snow removal equipment storage building south of the campground.
- Reserve area south of the existing campground for the future development of an airport maintenance facility and a firefighting station.
- Reserve area east of Echo Apron for long-term recreational development.

The plan establishes the direction for development to ensure Payson Municipal Airport's viability well into the next century. A set of detailed Airport Layout Plans has been prepared to act as a blueprint for everyday use by management, planners, programmers, and designers. The plans have been prepared on computer to help ensure their continued use as an everyday working tool for the Town of Payson. On-airport land use guidelines are recommended that will ultimately provide better separation of functions as well as room to meet future needs at the airport.

The implementation of the Master Plan will take a financial commitment of approximately \$11.3 (**Table A**). Nearly 80 percent of the recommended development program could be eligible for grants-in-aid administered by the Federal Aviation Administration (FAA). Thus, it is critical that all future development be designed to meet at least the minimum geometric design

standards of the FAA. To assist in this goal, the Airport Master Plan has been prepared in close coordination with applicable FAA airport design criteria. Care must be taken to avoid any future development that does not conform with

the Airport Layout Plan unless coordinated with the FAA. What may seem to be an easy short-term solution could have expensive and serious consequences on the long-term development of the airport.

**TABLE A**  
**Development Funding**

	Short Term Planning Horizon	Intermediate Term Planning Horizon	Long Term Planning Horizon	Total Development
Total Project Cost	\$5.4	\$2.9	\$3.5	11.3
Federally Eligible	3.5	1.8	2.8	8.1
State Eligible	1.1	.6	.3	2.0
Local Share	.7	.4	.4	1.5

Note: Totals may not add due to rounding

The primary issues upon which the Master Plan is based will remain valid for several years. However, to meet the community's aviation needs, flexibility within the overall plan concept has and will continue to make the airport a viable and successful public asset.

## ***ECONOMIC BENEFIT STUDY***

An Economic Benefit Study was also completed as part of this Master Plan to determine the economic benefits of Payson Municipal Airport to the local community. There are three types of economic benefits associated with the airport: direct, indirect, and induced. Direct benefits are created from the supply of aviation goods and services on the airport, such as fixed based operators, flight instructors, and airport administration. Indirect benefits are

created by visitors who arrive via the airport for business or personal reasons and spend locally for food, lodging, and entertainment. Induced benefits are created by the multiplier effects as spending recirculates through the economy.

As shown in **Table B**, Payson Municipal Airport is the source of \$8.1 million in annual gross revenues. This spending supports 132 total jobs in the area with total earnings to workers of \$2.0 million. The study used survey results from airport tenants, Sky Park Industrial tenants, and air travelers in determining the economic benefits of Payson Municipal Airport. A copy of the entire Economic Benefit Study, prepared by Arizona State University, is provided in **Appendix C** of this Master Plan.

<b>TABLE B</b>			
<b>Summary of Economic Benefits</b>			
<b>Benefit</b>	<b>Gross Revenues</b>	<b>Earnings</b>	<b>Employees</b>
Direct	\$3,199,176	\$907,311	49
Indirect	1,182,020	270,215	28
Induced	4,381,196	1,177,526	77
Total	\$8,067,518	\$1,990,540	132
Source: Payson Municipal Airport Economic Benefit Study, Arizona State University			